Response   Docket No. GB010100
Serial No. 10/156,441

IN THE CLAIMS:

1. (Previously Presented) A method of receiving a signal propagated over a signal channel, comprising receiving and demodulating the signal, equalising the demodulated signal in a first operation to counter a first type of distortion and in a second operation equalising the signal from the first operation to counter a second type of distortion, and storing training sequences for respective couples of transmitting and receiving equipments and by selecting the optimum training sequence for a currently used couple of transmitting and receiving equipments.

2.   (Original) A method as claimed in claim 1, characterised in that the equalisation in the first operation is to counter distortion introduced by the signal channel.

3.   (Original) A method as claimed in claim 1, characterised in that the equalisation in the first operation is to counter intersymbol interference (ISI).

4.   (Previously Presented) A method as claimed in claim 2, characterised in that the equalisation in the second operation is to counter distortions introduced by transmitting and receiving equipments.

5.   (Original) A method as claimed in claim 4, characterised by training an equalising stage used in the first operation using a first training sequence which includes the non-linear characteristics present in the transmitting and receiving equipment.

6.   (Previously Presented) A method as claimed in claim 4, characterised by training an equalising stage used in the second operation using a second training sequence which counters the non-linear characteristics present in the transmitting and receiving equipment.

7.   (Cancelled)

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8.   (Currently Amended) A receiver comprising means for receiving a signal
propagated over a signal channel, means for demodulating the received signal, a first
equalising stage coupled to the demodulating means for countering a first type of
distortion and a second equalising stage coupled to the first equalising stage for
countering a second type of distortion, wherein the first equalising stage includes means
for storing a first training sequence and the second equalising stage includes means for
storing a second training sequence and means for storing a plurality of the first and
second training sequences for respective couples comprising the receiver with different
transmitters and means for selecting an optimum training sequence for a currently used
couple.

9-10   (Cancelled).

11 (New)   A method of receiving a signal propagated over a signal channel, the method
comprising the steps of:
        receiving and demodulating the signal;
        equalising the demodulated signal to counter a first type of distortion, the first
type of distortion including intersymbol interference; and
        re-equalising the equalized signal to counter a second type of distortion, the
second type of distortion including non-linear distortions.

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